

CLAIMS

1. A method for phenotyping a mammalian subject as a poor or extensive metabolizer with respect to CYP2C19 which comprises:

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- a) administering a dose of racemic mephenytoin to said subject;
- b) waiting for a period of time;

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- c) obtaining a sample of urine, plasma or saliva from said subject;
- d) measuring the concentrations of S and R mephenytoin enantiomers.

2. A method of claim 1 wherein said sample is a saliva sample.

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3. A method of claim 1 wherein said is a plasma sample.

4. A method of claim 1 wherein said sample is a urine sample.

5. A method of claim 2 wherein said period of time is two hours.

6. A method of claim 1 wherein said dose is 100 mg of racemic mephenytoin.

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7. A method of claim 3 wherein said period of time is anytime within 8 hours.